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Atty. Dkt. No. NVDA/P000723

IN THE CLAIMS:

1. (Currently Amended) A system for cooling a processor, the system comprising:
a heat sink assembly having a fan, walls, and a bottom surface, wherein the walls and bottom surface define an air channel, and the heat sink assembly is configured to be thermally coupled to the processor; and
a heat sink lid coupled to the heat sink assembly, wherein:
the heat sink lid is configured to leave a portion of the air channel uncovered, and
the heat sink assembly is further configured such that air flows directly from the fan along the bottom surface of the heat sink assembly, and
the uncovered portion of the air channel reduces air flow noise produced by the system during operation.
2. (Original) The system of claim 1, further comprising a thermal adhesive disposed on an outer surface of the heat sink assembly for thermally coupling the heat sink assembly to the processor.
3. (Canceled)
4. (Currently Amended) The system of claim [[3]] 1, wherein the uncovered portion of the air channel reduces air flow noise by preventing the formation of a standing wave within the air channel during operation.
5. (Previously Presented) The system of claim 4, wherein the uncovered portion of the air channel prevents the formation of the standing wave by preventing the reflection of an incident wave propagating within the air channel during operation.
6. (Currently Amended) The system of claim [[3]] 1, wherein the heat sink lid includes an edge configured to reduce turbulent flow of air escaping from the air channel and flowing across the edge.

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7. (Original) The system of claim 6, wherein the edge is substantially perpendicular to a direction of air flow within the air channel.
8. (Original) The system of claim 1, wherein the processor comprises a graphics processing unit.
9. (Original) The system of claim 1, wherein the processor comprises a central processing unit.
10. (Original) The system of claim 1, wherein the processor comprises an application-specific integrated circuit.
11. (Currently Amended) A heat sink lid configured to couple to a heat sink assembly that is thermally coupled to a processor such that a portion of an air channel in the heat sink assembly is left uncovered,
wherein:
the heat sink lid includes an edge configured to reduce turbulent flow of air that escapes from the air channel and flows across the edge, and
the edge is substantially perpendicular to a direction of air flow within the air channel, and
the uncovered portion of the air channel and the heat sink lid reduce air flow noise when the heat sink assembly operates to cool the processor.
12. (Canceled)
13. (Currently Amended) The heat sink lid of claim ~~[[12]]~~ 11, wherein the uncovered portion of the air channel and the heat sink lid reduce air flow noise by preventing the formation of a standing wave within an air channel of the heat sink assembly during operation.

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14. (Previously Presented) The heat sink lid of claim 13, wherein uncovered portion of the air channel and the heat sink lid prevent the formation of the standing wave by preventing the reflection of an incident wave propagating within the air channel.
15. (Canceled)
16. (Canceled)
17. (Previously Presented) The system of claim 1, wherein the heat sink lid is directly coupled to the walls.
18. (Previously Presented) The system of claim 1, wherein the bottom surface is substantially flat.